

Modbus Register TU5400 sc

V1.34

TU5400 sc V1.34

Name	Register	Data Type	Length	Access Mode	Discrete Range	Min / Max	Description
TURBIDITY FNU / FTU / NTU / TEF	40001	Float	2	R		0.0 /1000.0	Turbidity [FNU]
TURBIDITY mNTU / mFNU	40003	Float	2	R		0.0 /1000000.0	Turbidity [mNTU]
TURBIDITY EBC	40005	Float	2	R		0.0 /250.0	Turbidity [EBC]
RSD	40007	Float	2	R		0.0 /100.0	Turbidity [EBC]
FLOW RATE	40009	Float	2	R		0.0 /5.0	Flowrate [l/min]
TURBIDITY MIN	40012	Float	2	R		0.0 /1000.0	minimum measurement range [NTU]
TURBIDITY MAX	40014	Float	2	R		0.0 /1000.0	maximum measurement range depends on calibration type [NTU]
EDITED NAME	40021	String	8	R/W			location of sensor
RESPONSE TIME	40029	Unsigned Integer	1	R/W		Min 90	setting measurement response time
MEAS UNIT	40030	Unsigned Integer	1	R/W		Jul 42	set unit of measurement for controller screen [6=FNU / 7=NTU / 8=TEF / 9=EBC /20=mNTU / 41=mFNU / 42=FTU]
SET RESOLUTION	40031	Unsigned Integer	1	R/W		0 /1	display resolution selection (normal = 0 / high = 1)
BUBBLE REJECT	40032	Unsigned Integer	1	R/W		0 /1	set bubble rejection On /Off [OFF = 0 / On = 1]
LOGGER INTERVAL	40033	Unsigned Integer	1	R/W		0 /7	set logger interval [0=5s / 1=30s / 2=1min / 3=2min / 4= 5min / 5=10min / 6=15min / 7=30min]
BUTTON FUNCTION	40034	Unsigned Integer	1	R/W		0 /4	set function for device button [0=SERVICE / 1=LINK2SC / 2=START WIPE / 3=WIPER REPLACE / 4=BUTTON OFF]
FLOW SENSOR	40037	Unsigned Integer	1	R/W		0 /1	flow unit installed On / Off [OFF = 0 / On = 1]
CLEANING UNIT	40038	Unsigned Integer	1	R/W		0 /1	cleaning unit installed On / Off [OFF = 0 / On = 1]
CHECK INTERVAL	40039	Unsigned Integer	1	R/W		0 /6	interval autoverification of cuvette [0=]OFF / 1=1h / 2=2h / 3=3h /4=6h / 5=12h / 6=24h]
SENSITIVITY	40040	Unsigned Integer	1	R/W		0 /1	sets level of identification of vial clarity error [0=HIGH / 1=LOW]
CLEANING INTERVAL	40041	Unsigned Integer	1	R/W		0 /4	set cleaning interval [0=2h / 1=6h / 2=12h / 3=24h / 4=7days]
CLEANING REMINDER	40042	Unsigned Integer	1	R/W		0 /1	reminder for changing wiper On / Off [OFF = 0 / On = 1]
CLEANING LEVEL	40043	Unsigned Integer	1	R/W		0 /1	Measurement level for cleaning On / Off [OFF = 0 / On = 1]
THRESHOLD FNU / FTU / NTU / TEF	40044	Float	2	R/W		0.0 /1000.0	Measurement threshold for cleaning
THRESHOLD mNTU / mFNU	40046	Float	2	R/W		0.0 /1000000.0	Measurement threshold for cleaning
THRESHOLD EBC	40048	Float	2	R/W		0.0 /250.0	Measurement threshold for cleaning
OUTPUT DELAY	40051	Unsigned Integer	1	R/W		0 /120	measurement delay after cleaning cycle
ACM SOFT VERSION	40052	Unsigned Integer	1	R		0 /65535	software version of cleaning unit
CALIBRATION CURVE	40053	Unsigned Integer	1	R/W		0 /2	type of calibration [0=STABLCAL / 1=FORMAZIN / 2=CUSTOM]
CALIBRATION RANGE	40054	Unsigned Integer	1	R/W		0 /1	calibration STABLCAL or FORMAZIN [0=1POINT / 1=2POINTS]
COUNT OF CALIBRATION POINTS	40055	Unsigned Integer	1	R/W		0 /6	calibration CUSTOM: count of user points
VERIFY AFTER CAL	40056	Unsigned Integer	1	R/W		0 /1	set verify after cal On /Off [OFF = 0 / On = 1]
CALIBRATION MENU GUIDED	40057	Unsigned Integer	1	R/W		0 /2	set menu guide calibration On / Off [0=OFF / 1=SEALED VIAL / 2=SYRINGE]

TU5400 sc V1.34

Name	Register	Data Type	Length	Access Mode	Discrete Range	Min / Max	Description
SET OUTMODE CALIBRATION	40058	Unsigned Integer	1	R/W		0 / 2	output mode during calibration [0=HOLD / 1=ACTIVE / 2=SET TRANSFER]
CALIBRATION REMINDER	40059	Unsigned Integer	1	R/W		0 / 4	Reminder interval to calibrate [0=OFF / 1=1day / 2=7days / 3=30days / 4=90 days]
VERIFICATION MENU GUIDED	40095	Unsigned Integer	1	R/W		0 / 2	setting of type of guide to verificate [0=OFF / 1=SEALED VIAL / 2=SYRINGE]
SET OUTMODE VERIFICATION	40096	Unsigned Integer	1	R/W		0 / 2	output mode while verification is active [0=HOLD / 1=ACTIVE / 2=SET TRANSFER]
VERIFICATION INTERVALL	40097	Unsigned Integer	1	R/W		0 / 4	reminder interval for verification [0=OFF / 1=1day / 2=7days / 3=30days / 4=90 days]
VERIFICATION STANDARD	40098	Float	2	R/W		0.0 / 1000.0	value of verification standard
ACCEPT RANGE NTU	40100	Float	2	R/W		0.015 / 500	allowed range for passed verifications in NTU
ACCEPT RANGE %	40102	Unsigned Integer	1	R/W		0 / 50	allowed range for passed verifications in %
ACCEPT RANGE UNIT	40103	Unsigned Integer	1	R/W		10. Jul	Unit of verification NTU or % [7=NTU / 10=%]
SET OUTMODE MNT/TEST	40115	Unsigned Integer	1	R/W		0 / 2	output mode during service [0=HOLD / 1=ACTIVE / 2=SET TRANSFER]
SERIAL NUMBER	40116	String	6	R			Serialnumber of device
PROGRAM	40122	Float	2	R		0.0 / 999.99	Version of application code
BOOTPROGRAM	40124	Float	2	R		0.0 / 999.99	Version of bootcode
STRUCTURE	40126	Unsigned Integer	1	R		0 / 255	version of devioce driver structure
CONTENT	40127	Unsigned Integer	1	R		0 / 255	version of devioce driver content
FIRMWARE	40128	Unsigned Integer	1	R		0 / 255	version of devioce driver firmware
PROGRAM AU	40131	Unsigned Integer	1	R		0 / 65535	Version of application code Analytical Unit
SERIAL NUMBER AU	40132	Unsigned Integer	2	R		0 / 9999999	Serialnumber of Analytical Unit
SER NO PCB AU	40134	Unsigned Integer	2	R		0 / 9999999	Serialnumber of mainboard of Analytical Unit
SER NO LASER	40136	Unsigned Integer	2	R		0 / 9999999	Serialnumber of Laser
VIAL STATE	40140	Unsigned Integer	1	R		0 / 2	autoverification result of VIAL (state) [0=OK / 1=ALERT / 2=ERROR]
VIAL CONDENSATION	40141	Integer	1	R		0 / 100	autoverification result of VIAL condensation
VIAL CONDITION	40142	Integer	1	R		0 / 100	autoverification result of VIAL condition
TOTAL TIME SENSOR	40177	Unsigned Integer	1	R		0 / 65535	time of sensor in use in days
WIPER REPLACE	40178	Unsigned Integer	1	R		0 / 65535	Down counter of available wiper cycles
VIAL DATE	40179	Time2	2	R		0 / 4294967295	date of installed VIAL
VIAL CLEANING DATE	40181	Time2	2	R		0 / 4294967295	date of last manual cleaning of VIAL
CALIBRATION	40183	Time2	2	R		0 / 4294967295	date of latest calibration
VERIFICATION	40185	Time2	2	R		0 / 4294967295	date of latest verification
FACTORY SERVICE	40187	Time2	2	R		0 / 4294967295	Date of latest factory service
DESICCANT TIME	40189	Unsigned Integer	1	R		0 / 65535	days since latest desiccant install
LOAD	40190	Unsigned Integer	1	R		0 / 65535	status of desiccant
PUMP TIME	40191	Unsigned Integer	2	R		0 / 999999	used pump time

TU5400 sc V1.34

Name	Register	Data Type	Length	Access Mode	Discrete Range	Min / Max	Description
VIAL PRESENT	40193	Unsigned Integer	1	R		0 / 1	VIAL detected [YES = 1 / NO = 0]
LID TYPE	40194	Unsigned Integer	1	R		0 / 2	type of installed Lid [0=NONE / 1=MEASURE / 2=CALIBRATE]
MEAS RAW	40195	Float	2	R		-0.04	signal of measurement channel
REF RAW	40197	Float	2	R		-0.04	signal of reference channel
HEATER	40199	Float	2	R		0.0 / 100.0	Temperature Laser system
RATIO P/L	40209	Unsigned Integer	1	R		0 / 100	Pump ratio
HUMIDITY	40210	Float	2	R		0 / 100	humidity condens system
TEMP CONDENS	40212	Float	2	R		0.0 / 100.0	temperature condens system
SET POINT	40214	Unsigned Integer	1	R		0 / 100	threshold condensation system
RATIO P/L WEEK	40219	Unsigned Integer	1	R		0 / 100	Pump ratio (week)